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10/731,598	12/09/2003	Brian Jones	60001.263US01	4743
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MERCHANT & GOULD (MICROSOFT)			EXAMINER	
P.O. BOX 2903			TRUONG, LECHI	
MINNEAPOLIS, MN 55402-0903				
			ART UNIT	PAPER NUMBER
			2194	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/731,598

Applicant(s)

JONES ET AL.

Examiner

LeChi Truong

Art Unit

2194

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 November 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 25-48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 25-39, 41, 42, 45 and 46 is/are rejected.
- 7) ☐ Claim(s) 40, 43, 44, 47, 48 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/ are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 25-48 are presented for the examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 25-39, 41, 42, 45, 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee at al (US 2003/0145197 A1) in view of Bender(US 7,143,343).

As to claim 25, Lee teaches the invention substantially as claimed including: An application programming interface (the analyzing/processing unit 150 is called, para [0032], ln 1-3, a user (user, para [0032], ln 1-3), the schema validation system (the analyzing/processing unit 150 calls the illegitimate change detecting file generating unit 160, para [0032], ln 1-3 and ln 17-22), an application programming interface for allowing a user to programmatically access the functionality of the schema validation system(para[0032], ln 1-4 and ln 17-22); a message call(calls, para[0032], ln 9-16), an file(the illegitimate change detecting information, para[0032], ln 9-17), document(documents and resources, para[0008], ln 28-32/ ln 39-43),the application programming interface comprising a message call for requesting association of an XML schema file to a document(para[0032], ln 9-17), association of the XML schema file to the document(receives from the user interface 110 to which resource the illegitimate detecting information processing is performed and to which resource the encryption is applied, [0032, ln 5-10).

receives from the user interface 110 to which resource the illegitimate detecting information processing is performed and to which resource the encryption is applied, [0032, ln 5-10).

Lee does not teaches extensible markup language schema validation model as the XML schema validation model will be applied to one or more XML documents to be submitted to the application program, passing to the XML schema validation model at least one object property configured to implement a modification in the XML schema validation mode, a change to an existing XML schema employed by the XML schema validation model, one or more additional XML Schemas, receiving the modification in the XML Schema validation model. However, Bender et al teaches extensible markup language schema validation model as the XML schema validation model will be applied to one or more XML documents to be submitted to the application program(customer's now have the ability to add extensions to an application's XML DTD to support the customer's own unique elements without requiring any changes to the existing application; while still preserving the ability to validate the XML documents. An application's XML DTD is dynamically created such that the corresponding document is extensible, and it can also be validated. Customers can add extensions to an application's XML DTD in order to provide additional functionality, Para [0025], ln 1-7), passing to the XML schema validation model at least one object property configured to implement a modification in the XML schema validation mode, a change to an existing XML schema employed by the XML schema validation model (An interface is externalized which customers can implement to add new elements to the DTD. The interface also provides a way to integrate new elements with existing ones by adding an entry for a new element to a parameter entity in the DTD, para [0058], ln 5-10), one or more additional XML Schemas, receiving the modification in the XML

Schema validation model (elements can be changed, e.g., added or removed, in a DTD dynamically during runtime. Each of the elements and their attributes are retrieved from the plug-ins which provides a section of the DTD to be plugged in. At any point in time, while the system is running, a DTD can be reconstructed for the next document that is ready to be parsed, para [0081], ln 1-7).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modifying the teaching of Lee with Bender to incorporate the feature of extensible markup language schema validation model as the XML schema validation model will be applied to one or more XML documents because this allows customers to add new elements to the document, making the document extensible, and still perform validation.

As to claim 26, Bender teaches a format of error messages presented by the XML schema validation model (para [0011], ln 1-9/para [0086], ln -11).

As to claim 27, Bender teaches accessing one or more individual members of an XML child node suggestions collection as defined by an associated XML schema file and current editing context within a document (para [0083], ln 1-10).

As to claim 28, Bender teaches an object method for inserting an XML element into a document whereby the object method includes a range parameter for pointing to a part of the document where the XML element is to inserted (para [007], ln 6-16).

As to claim 29, Bender teaches an object method for requesting validating of a specified XML element applied to a document (para [0058], ln 6-11).

As to claim 30, Bender teaches an object method for requesting of specified XML element applied to a document (para [0013], ln 1-2).

As to claim 31, Lee teaches an object method for attaching a user-specified XML schema file to a document (para [0007], ln 1-9).

As to claim 32, Bender teaches an object property for directing the XML schema validation model to allow saving a document as an XML document(para[0087], ln 10-11), where saving the document as an XML document violates an associated XML schema file(para[0011], ln 1-10).

As to claim 33, Bender teaches an object property includes an object property for causing the XML schema validation model to allow mixed content data entry into a document where the mixed content data entry otherwise violates an associated XML schema file, para[0013], ln 1-3).

As to claim 34, Bender teaches accessing a specified XML schema file associated with a document from a collection of XML schema file references whereby a parameter associated with the specific XML schema reference is passed to the XML schema validation model with the object method (para [0058], ln 1-10).

As to claim 35, Bender teaches controlling whether XML schema violations are highlighted in a document by the XML schema validation model (para [0010], ln 1-16).

As to claim 36, Bender teaches requiring the XML schema validation model to validate a document against all XML schema files associated with the document (para [0011], ln 1-12).

As to **claim 37**, Lee teaches removing an XML schema file reference from a document and for removing the XML schema file reference from a schema file references collection (para [004], ln 1-5).

As to **claim 38**, Bender teaches re-associating a specified schemas file with a document where the specified schema files was removed from association with document (para [0026], ln 1-5).

As to **claim 39**, Lee teaches determining the object property seeks a response by XML schema validation model; receiving the response of XML schema validation model; and providing the response of the XML schema validation model through one of the application programming interfaces and the set of message calls (para [0032], ln 9-17).

As to **claim 41**, it is an apparatus claim of claim 1; therefore, it is rejected for the same reason as claim 1 above.

As to **claim 42**, Lee teaches an application programming interface and a set of message calls ((para [0032], ln 9-17).

As to **claims 45, 46**, they are apparatus claims of claims 41, 42; therefore, they are rejected for the same reason as claims 41, 42 above.

Allowable Subject Matter

3. Claims 40, 43, 44, 47, 48 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (571) 272 3767. The examiner can normally be reached on 8 - 5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomson, William can be reached on (571) 272 3718. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIP. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIP system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

LeChi Truong

January 10, 2008.


WILLIAM THOMSON
SUPERVISORY INVENT EXAMINER